

VAYNER, I.M., inzh.; BELOV, V.V., inzh.

New methods of the lead plating of chemical apparatus. Khim.
mashinostr. no.3:35-36 My-Je '63. (MIRA 16:11)

YANITSEN, Boris Fedorovich; VAYNER, I.Ya., red.; LATUKHINA, Ye.I.,
ved. red.; VOROB'YEVA, L.V., tekhn. red.

[Planning and analyzing basic technical and economic drill-
ing indices] Planirovanie i analiz osnovnykh tekhniko-
ekonomicheskikh pokazatelei bureniia. Moskva, Gostop-
tekhizdat, 1962. 74 p. (MIRA 15:7)
(Oil well drilling)

VAYNER, I. YA.

NIKOLAYEVSKIY, N.M., TOMASHPOLSKIY, L.M., VAYNER, I. YA., BRENER, M.M.,
LVOV, M.S.,

Economic aspects of prospecting and development of oil fields in the USSR

Report to be submitted for the Sixth World Petroleum Congress, Frankfurt
16-26 June 63.

WATNER, I.Ya.; MORGUNOVA, G.F., vedushchiy redaktor; KRDENKO, V.S.,
tekhnicheskiiy redaktor

[Profitableness and resources for lowering costs in well drilling]
Rentabel'nost' i rezervy snizheniya sebestoimosti v burenii skvazhin.
Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry,
1956. 34 p. (MIRA 10:3)
(Oil well drilling)

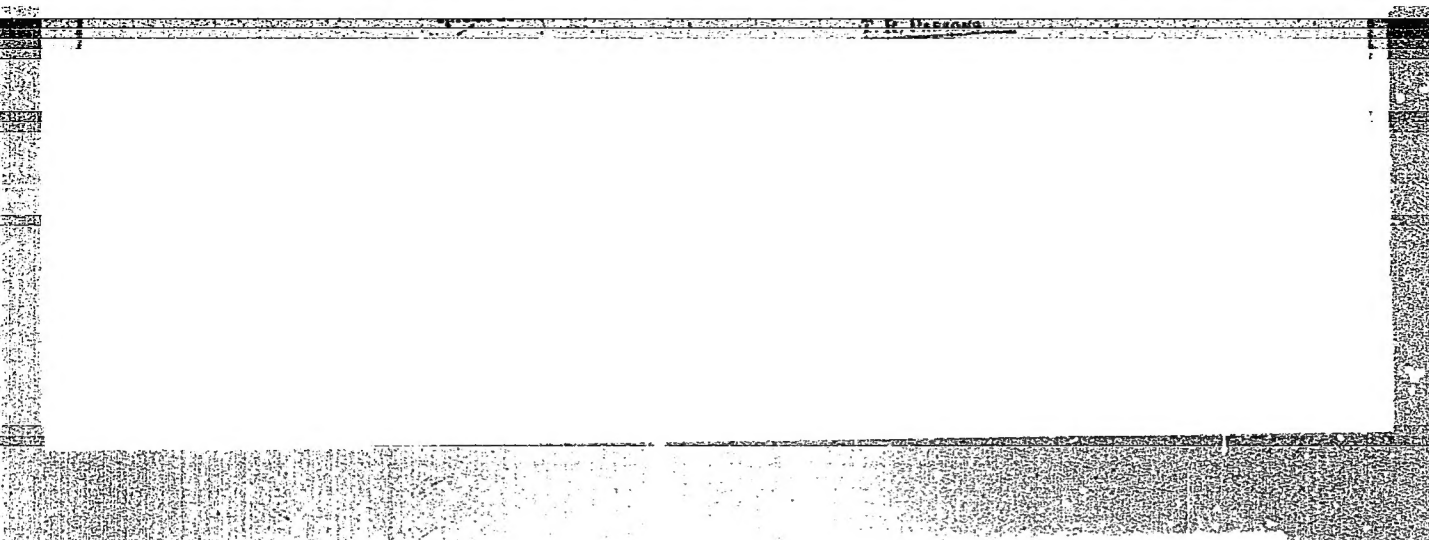
BRENNER, Mark Mironovich, doktor ekon. nauk; VAYNER, I.Ya., nauchnyy
red.; LEVITSKIY, P.I., nauchnyy red.; PETRUSHEV, I.M., red.;
PONOMAREVA, A.A., tekhn. red.

[Economics of the petroleum industry of the U.S.S.R.] Ekonomika
neftianoi promyshlennosti SSSR. Moskva, Ekonomizdat, 1962. 391 p.
(MIRA 15:8)

(Petroleum industry)

"APPROVED FOR RELEASE: 08/31/2001

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VAYNER, K.G.

VAYNER, K.G., kandidat meditsinskikh nauk; DAVYDOVA, E.V., kandidat
meditsinskikh nauk

Infected penetrating wounds of the eyeball. Oft.zhur. 12 no.2:
91-95 '57. (MIRA 10:11)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta glaznykh
bolezney imeni prof. Girshman (dir. - chlen-korrespondent AMN SSSR
prof. I.I.Merkulov)
(EYE--WOUNDS AND INJURIES)

VAYNER, K.G., kand.med.nauk

Eye injuries in children. Oft.zhur. 13 no.1:23-26 '58. (MIRA 11:4)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta glaznykh
bolezney im. L.L.Girshmana (direktor-chlen-korr. AMN SSSR
zasluzhennyy deyatel' nauki prof. I.I.Merkulov).
(EYE--WOUNDS AND INJURIES)

VAYNER, K.G., kand.med.nauk; PIS'MENNAYA, F.G., nauchnyy sotrudnik

Fourteenth Session of the Ukrainian Research Institute for Eye
Diseases. Oft. zhur. 16 no.8:490-498 '61. (MIRA 15:4)
(UKRAINE--EYE--DISEASES)

VAYNER, K.G., kand.med.nauk; PIS'MENNAYA, F.G., nauchnyy sotrudnik

Thirteenth session of the [prof.] L.L.Girshman Ukrainian Research
Institute for Eye Diseases. Oft. zhur. 15 no.3:187-192 '60.
(MIRA 14:5)

(OPHTHALMOLOGY—CONGRESSES)

VAYNER, K.M.; GUREVICH, G.I.

Recent data on the geological structure of the Pytkov Kamen'
region. Dokl. AN SSSR 142 no.6:1359-1361 F '62.
(MIRA 15:2)

1. Ukhtinskoye territorial'noye geologicheskoye upravleniye.
Predstavleno akademikom D.V.Nalivkinym.
(Pytkov Kamen' Region—Geology)

VAYNER, L. I.

Vayner, L. I. "Uninterrupted application of concrete to a blast furnace foundation",
Byulleten' stroit. tekhniki, 1948, No. 24, p. 22-23.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

VAYNER, L. I.,

352^{1/2}

Betonnye i Zhelezobetonnye Raboty na Stroitel'stve Metalurgicheskogo
Zavoda. Trudy IV Vsesoyoz. Konf*Tsii Po Betonv i Zhelezobeton. Konst-
ruktsiyam. Ch. I. M. -L., 1949, S. 317-23

SO:Letopis'Zhurnal'nykh Statey vol 34, Moskva, 1949

FILIPPOVICH, Yu.B.; VAYNER, L.I.

Ratio between the weight of the batch of material and the volume of acid during the hydrolysis of proteins in the presence of carbohydrates. Uch. zap. MGPI 140:223-230 '58. (MIRA 16:8)

1. Iz laboratorii organicheskoy i biologicheskoy khimii Moskovskogo gosudarstvennogo pedagogicheskogo instituta imeni Lenina.

VAYNER, I. I.

Jan. 53

USSR/ Engineering - Construction, Heat-Resistant Concrete

"Experiment in Use of Heat-Resistant Concrete With 'Artikskaya' Tuff and Pumice Filler," Engr I. I. Vayner

Stroi Prom, No 1, p 30

Describes use of local tuff and pumice filler in construction of heat-resistant foundations under the annular kiln and chimney in construction of the walls of the regenerator at unidentified metallurgical plants. The annular kiln foundation is greater than 15 m in diam and about 1,000 cu m vol. States that, according to laboratory tests, tuff and pumice can be used in heat-resistant concrete at temps up to 900°. Gives compn of concrete and compression test results.

262T19

KARIMOVA, Z.Kh.; SEVAST'YANOVA, K.I.; SAVINA, K.A.; WAYNER, L.M.

Bactericidal action of propolis extract on some pathogenic
micro-organisms. Report No.1. Kaz.med.zhur. 41 no.1:71-73
Ja-F '60. (MIRA 13:6)

1. Iz kafedry mikrobiologii (zav. - dotsent Z.Kh. Karimova)
Kazanskogo meditsinskogo instituta i laboratorii patofizio-
logii (zav. - starshiy nauchnyy rabotnik I.F. Kazakov) Kazan-
skogo nauchno-issledovatel'skogo veterinarnogo instituta.
(PROPOLIS) (MICRO-ORGANISMS, PATHOGENIC)

VAYNER, L. S.

Vayner, L. S. --"Electrocardiographic Investigations in the Presence of Tuberculosis of the Lungs." Odessa State Medical Inst imeni N. I. Pirogov, Odessa, 1955
(Dissertation for Degree of Doctor of Medical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

VAYNER, I.S.; KOLESNICHENKO, N.G.; TSYBAN' E.P.

Mass surveys as a method for detecting tuberculosis in rural areas.
Sov.zdrav. 15 no.4:41-42 J1-Ag '56. (MLRA 9:9)

1. Iz organizatsionno-metodicheskogo otdela (zav. S.I.Tsesarskaya)
Odesskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir.-
kandidat meditsinskikh nauk M.A.Brusnikin)

(TUBERCULOSIS, prevention and control,
in Russia, mass surveys in rural areas (Rus))

(RURAL CONDITIONS,
tuberc. mass surveys in Russia (Rus))

KOROBENNIKOV, V.A.; VAYNER, I.S.

Brief result of and prospects for the study of the regime of
underground waters in the Central Black Earth region. Trudy
VSEGINGEO no.10:202-205 '64.

(MIRA 17:10)

1. Gidrogeologicheskaya stantsiya Tsentral'no-Chernozemnoy polosy.

ISMAILOV, R.G.; KORNEYEV, M.I.; KAGRAMANOVA, A.S.; VAYNER, L.Z.;
BLYUVSHTEYN, S.S.

High-temperature reformed ligroine as a raw material for
big chemistry. Izv. vys. ucheb. zav.; neft' i gaz 6 no.7:
49-55 '63. (MIRA 17:8)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova
i Bakinskiy neftepererabatyvayushchiy zavod imeni XXII s"yezda
Kommunisticheskoy partii Sovetskogo Soyuza.

VAYNER, I.Ya.

Economics of deep drilling. Neft. khoz. 40 no.12:19-24 D '62.
(MIRA 16:7)

(Oil well drilling—Costs)

ACCESSION NR: AP300038

AUTHORS: Ismailov, R. G.; Kormeyev, M. I.; Kagramanova, A. S.;
Vayner, L. Z.; Blyuvshstein, S. S. 67

TITLE: High-temperature reforming of lignoin - raw material
reserve for soft chemistry

SOURCE: IVUZ. Neft' i gaz, no. 7, 1963, 49-54

TOPIC TAGS: lignoin, lignoin reforming, ethylene, propylene,
butylene, petroleum

ABSTRACT: Authors investigated the means of obtaining new raw materials for the petroleum industry which differ from the gases presently obtained by the destructive distillation of petroleum. It is known that high temperature cracking at low pressures gives a higher yield of gas and therefore, the experiments of a semi-productive nature were set on the basis of high temperature reforming, using lignoin as a raw material. Maximum yield of ethylene, propylene, and butylene is obtained at a temperature of 625C and reaction

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L 17744-9

ACCESSION NR: AP3006222

time of 10 sec. This temperature is the optimum temperature for ethylene and propylene yields as well as for the production of benzene with an octane number of 74 - 74.6. The yield of gas was 13 to 27%, depending on temperature, against 5-7% at ordinary thermocracking. The yield of unsaturated C_2 , C_3 , C_4 was 4.7 to 9.2%, depending on the raw material as compared to 1 to 1.4% at ordinary and combined thermocracking. The largest yield of butylene was obtained at 610°C. It is necessary to add a wood tar antioxidant (0.1%) for the chemical stabilization of benzene and for the improvement of its properties and to compound it with low activity benzene of direct distillation and other petroleum benzenes. Orig. art. has: 4 tables and 1 figure.

ASSOCIATION: Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova (Azerbaydzhan institute of petroleum and chemistry); BNZ im. XXII s"ezda KPSS (BNZ named for 22nd congress of Communist Party of the Soviet Union)

SUBMITTED: 11Oct62

DATE ACQ: 23Sep63

ENCL: 00

SUB CODE: CH

NO REF SOV: 000

OTHER: 000

Cord 2/2

ACCESSION NR: AP3006222

S/0152/63/000/007/0047/015-

AUTHORS: Ismailov, R. G.; Kormeyev, M. I.; Kagramanova, A. S.;
Vayner, L. Z.; Blyuvshtein, S. S.

TITLE: High-temperature reforming of ligroin - raw material
reserve for soft chemistry

SOURCE: IVUZ. Neft' i gaz, no. 7, 1963, 49-54

TOPIC TAGS: ligroin, ligroin reforming, ethylene, propylene,
butylene, petroleum

ABSTRACT: Authors investigated the means of obtaining new raw materials for the petroleum industry which differ from the gases presently obtained by the destructive distillation of petroleum. It is known that high temperature cracking at low pressures gives a higher yield of gas and therefore, the experiments of a semi-productive nature were set on the basis of high temperature reforming, using ligroin as a raw material. Maximum yield of ethylene, propylene, and butylene is obtained at a temperature of 625C and reaction

Card 1/2

ACCESSION NR: AP3006222

time of 10 sec. This temperature is the optimum temperature for ethylene and propylene yields as well as for the production of benzene with an octane number of 74 - 74.6. The yield of gas was 13 to 27%, depending on temperature, against 5-7% at ordinary thermocracking. The yield of unsaturated C_2 , C_3 , C_4 was 4.7 to 9.2%, depending on the raw material as compared to 1 to 1.4% at ordinary and combined thermocracking. The largest yield of butylene was obtained at 610C. It is necessary to add a wood tar antioxidant (0.1%) for the chemical stabilization of benzene and for the improvement of its properties and to compound it with low activity benzene of direct distillation and other petroleum benzenes. Orig. art. has: 4 tables and 1 figure.

ASSOCIATION: Azerbaydzhanskiy institut nefi i khimii im. M. Azizbekova (Azerbaydzhani institute of petroleum and chemistry); BNZ im. XXII s"ezda KPSS (BNZ named for 22nd congress of Communist Party of the Soviet Union)

SUBMITTED: 11Oct62

DATE ACQ: 23Sep63

ENCL: 00

SUB CODE: CH

NO REF SOV: 000

OTHER: 000

Card 2/2

VAYNER, M.A., inzhener; KHIZHNYAK, S.P., inzhener.

Increasing the efficiency of boiler units burning anthracite dust. Elek.
sta. 24 no.4:53-55 Ap '53.

(MIRA 6:5)
(Steam boilers)

VAYNER, Mikhail Aleksandrovich; KAMAKHIN, Yevgeniy Sergeyevich;
MORGULIS, Yu.B., kandidat tekhnicheskikh nauk, retsenzent;
KASSATSIYER, M.S., inzhener, redaktor; UVAROVA, A.F., tekhnicheskii
redaktor

[Model Ch 10,5/13. high-speed diesel] Bystrokhodnye dizeli tipa
Ch 10,5/13. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1957. 334 p. (MLRA 10:5)
(Diesel engines)

VAYNER, M.A., inzhener.

Mechanical delivery of balls to mills. Elek. sta. 28 no.6:72 Je '57.
(Coal, Pulverized) (Conveying machinery) (MLRA 10:8)

VAYNER N. G.

Pl spentiynoye planirovaniyt v
kollmozakh penspective planninr in
collective farms. by N. G. Vayner
13 F. Dekidov. Moonya. Seliknozgis 1919
253 p. Tables. Diagra.

VAJNER, M. G.

Machine-tractor stations on the 15th anniversary of the October Revolution.
Moskva. Sel'kolkhozgiz, 1932. 93 p.

VAYNER, M. G.

The organization of production on grain kolkhozes. Moskva, Sel'khozgiz, 1935.
270 p. (51-47767)

S561.V24.

1. *plan, A. .*

Agricultural plans in the kolkhoz Moskva, Sel'khozgiz, 1939. 253 p.

At head of title: M.G. Vainer i S.F. Demidov.

VAYNER, M.

Machine-Tractor Stations

Economic effectiveness of introducing new technology into collective farm production,
Sots. sel'khoz., 23, No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Unclassified.

VAYNER, M.G.; GREBTSOV, P.P., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor.

[Manual for directors of machine-tractor stations] V pomoshch' direktoru
MIS. Moskva, Gos. izd-vo selkhoz. lit-ry.No.2 1955. 518 p. (MIRA 9:4)
(Machine-tractor stations)

RASKIN, G.F., kand. sel'khoz. nauk; VAYNER, M.G., kand. sel'khoz. nauk; YEREMEYEV, K.I., kand. ekon. nauk; AL'FER'YEV, V.P., kand. ekon. nauk; GOLENKO, M.V., mlad. nauchn. sotr.; GANZHA, N.M., mlad. nauchn. sotr.; FREYDMAN, S.M., red.; MAKHOVA, N.N., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Efficiency of capital investments in agriculture] Ef-fektivnost' kapital'nykh vlozhenii v sel'skoe khoziaistvo. Moskva, Sel'khozizdat, 1963. 294 p. (MIRA 17:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva. 2. Nauchnyye sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Raskin, Vayner, Yermeyev, Al'fer'yev, Golenko, Ganzha).
(Agriculture--Finance)

VAYNER, Mikhail Grigor'yevich; ALFER'YEV, Vladimir Petrovich;
KOSTIN, V.P., red.; PONOMAREVA, A.A., tekhn. red.

[Supply of equipment and machinery in the U.S.S.R. agriculture] Material'no-tekhnicheskoe snabzhenie sel'skogo khoziaistva SSSR. Moskva, Ekonomizdat, 1963. 174 p.
(Farm mechanization) (MIRA 16-12)

VAYNER, M.G., kand. sel'khoz. nauk; ALFER'YEV, V.P., kand. ekonom. nauk;
DROZDOV, B.T., red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning in connection with machinery and equipment for agricultural machinery] Planirovanie material'no-tekhnicheskikh sredstv v sel'skom khoziaistve, Moskva, Gos. izd-vo planovogo ekon. lit-ry, 1961. 175 p. (MIRA 14:8)
(Agricultural machinery)

VAYNER, M.I. (Moskva)

Some characteristics of the structure of homogeneous porous media.
Izv. AN SSSR. Mekh. no.5:166-168 S-O '65. (MIRA 18:10)

WYNER, M.I., TSIMBLER, Yu.A.; CHERNIKIN, V.I.; Prinimali uchastiye:
MAKOVSKIY, V.A., student-diplomnik; ZAKHAROV, G.I., student-
diplomnik; MINSKER, I.D.; OTROSHCHENKO, G.P.

Experimental investigation of the evaporation of gasoline from
a deepened reinforced concrete tank. Transp. i khran.nefti i
nefteprod. no. 3:23-28 '64. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'-
stvu magistral'nykh truboprovodov, Spetsial'noye konstruktorskoye
byuro "Transneft'avtomatika" i Moskovskiy ordena Trudovogo Krasnogo
Znameni institut neftekhimicheskoy i gazovoy promyshlennosti imeni
akademika I.M.Gubkina. 2. Moskovskiy ordena Trudovogo Krasnogo
Znameni institut neftekhimicheskoy i gazovoy promyshlennosti imeni
akademika I.M.Gubkina (for Makovskiy, Zakharov). 3. Vsesoyuznyy
nauchno-issledovatel'skiy institut po stroitel'stvu magistral'-
nykh truboprovodov (for Minsker, Otroshchenko).

L 29816-66 EWT(m)

ACC NR: AP6013209

SOURCE CODE: UR/0421/66/000/002/0123/0124

AUTHOR: Vayner, M. I. (Moscow)

ORG: none

TITLE: The problem of free saturation in the filtration of a gassified liquid and in the filtration of a liquid with phase transformations

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 2, 1966, 123-124

TOPIC TAGS: filtration, fluid flow, phase transformation

ABSTRACT: It is known that in a two phase filtered flow, the permeability of the gas evolved from solution in a drop form liquid with a lowering of the pressure below the saturation pressure is less than the permeability of a gas introduced into a porous medium from the bottom. This fact is generally explained by the possibility of the existence of free partial gas unsaturations, isolated from the main mass. The present article is an attempt at a theoretical analysis of this problem. Orig. art. has: 11 formulas and 1 figure.

SUB CODE: 20/ SUBM DATE: 07Jun65/ ORIG REF: 003

Card 1/1 *W*

VAYNER, M.I. (Moskva)

Statistical similitude criteria for fluid flow in a homogeneous
porous medium. Izv.AN SSSR.Mekh. i mashinostr. no.5:144-148 S-0
'63. (MIRA 16:12)

VAYNER, M. I., inzh.

Losses from reinforced concrete tanks during acceptance tests.
Stroi. truboprov. 8 no.4:30-32 Ap '63. (MIRA 16:4)

1. Eksperimental'no-konstruktorskoye byuro Vsesoyuznogo nauchno-
issledovatel'skogo institutapo stroitel'stvu magistral'nykh
truboprovodov.

(Tanks--Testing)

VAYNER, M.I.

Effect of the statistical similarity criterion of the microstructures of porous media on the characteristics of two-phase fluid flow in the region of self-modeling according to the criterion P_1 . Nauch.-tekh. sbor. po dob. nefti no.25:57-64 '64.

(MIRA 17:12)

1. Moskovskiy ordena Trudovogo Kraenogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina.

DONSKOY, S.M.; ZEMSKOV, N.Ya.; OSENOV, V.I.; POTAPOV, A.I.;
UDALIKHINA, A.S.; YAROSHUK, D.Ya.; VAYNER, M.S.; VERNYI,
Ye.A.; CHURKIN, D.I.; GERASIMOV, K.A.; ZIBRIN, D.A.;
AYKHENVAL'D, Ye.L.; KOZLOV, A.I.; BULANOV, A.G.;
OSTROVSKAYA, L.N.; TAUBES, I.S.; PETROV, Z.I.; POTEPALOV,
V.A.; PECHONYY, A.D.; TROFIMOVA, A.S., tekhn. red.

[Development of power engineering in the Tatar A.S.S.R.]
Razvitie energetiki Tatarskoi ASSR. Kazan', Tatarkoe knizhnoe
izd-vo, 1961. 145 p. (MIRA 15:2)

1. Tatar A.S.S.R. Sovet Narodnogo khozyaystva. Upravleniye
energeticheskoy promyshlennosti.
(Tatar A.S.S.R.—Power engineering)

REYTLINGER, Sergey Aleksandrovich; CHEKHOVSKIY, Yuriy Vasil'yevich;
MOSKALEV, N.S., kand. tekhn.nauk, retsenzent; REBINDER, P.A.,
akademik, red.; VAYNER, M.S., red.; RAZUMOVSKAYA, T.Ya.,
red.; DEMIDOV, Ya.F., tekhn. red.

[Mechanisms of the transmission of gases and liquids through
concrete and methods of studying the structure of concrete
pores] Mekhanizmy perenosa gazov i zhidkostei cherez beton i
metody issledovaniia struktury por betona. Pod red. P.A.
Rebindera. Moskva, VNIIST Glavgaza SSSR. Red.-izdatel'skii
otdel, 1961. 63 p. (MIRA 15:11)

(Concrete--Testing)

S/119/62/000/002/007/010
D201/D301

AUTHORS:

Vayner, M.S. and Cherepanov, V.S.

TITLE:

New pneumatic instruments

PERIODICAL:

Priborostroyeniye, no. 2, 1962, 27-29

TEXT: The authors discuss the new pneumatic temperature gauges of accuracy class 1 and 1.5 developed by the Tsentral'noye proyektno-konstruk-torskoye byuro teploenergeticheskikh priborov i sredstv avtomatizatsii (Central Design Office of Heat Energy Instruments and Automation Equip-ment). Their range of operation is -100 to $+600$ C, output signal vary-ing between 0.2 and 1.0 kg/cm² and they may be used in places with danger of explosion. They are mass produced by the Tatarskiy sovnarkhoz and are classified as follows: Indicating, non-scale and recording; liquid, gas or Hg filled. As recommended by the NIITeplopribor, the pickups of the instruments use a spiral manometric spring, with pinched profile and minimum internal volume of 0.6 cm³; this secures a display angle of 60-70° with a maximum traction moment of 6-7 kgmm/degree. As an example a pressure

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chart drive mechanism. The regulator can be ad-justed for no. 2/2

VAYNER, M.S.; CHEREPANOV, V.S.

New pneumatic instruments. Priborostroenie no.2:27-29 F '62.
(Pneumatic control) (Pneumatic gauges) (MIRA 15:2)

SAMSON, Ye.I., prof.; KIMLACH, L.F.; VAYNER, N.B.

Results of antirelapse treatment of patients with peptic ulcer.
Sov. med. 28 no.6:57-61 Je '65. (MIRA 18:8)

1. Gosptal'naya terapevticheskaya klinika (zav.- prof. V.A. Triger) Chernovitskogo meditsinskogo instituta i klinicheskaya bol'nitsa Nr.1 (glavnyy vrach L.F. Kimlach).

VAYNER, P., inzhener.

Using a screw conveyor in unloading cement. Stroitel' no.3:12 Mr '57.
(Conveying machinery) (Cement--Transportation) (MLRA 10:4)

82412

S/056/60/038/03/19/033
B006/B014

24.6600

AUTHORS: Vayner, R., Yusim, Kh.

TITLE: The Effect of ¹⁹Nuclear Deformation on the ²¹Electron Wave Function. Application to the ¹⁹Beta Decay

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 38, No. 3, pp. 870-876

TEXT: Within the framework of the perturbation theory the authors investigated the influence exerted by a quadrupole interaction upon the wave function of a system consisting of a deformed axisymmetric nucleus and one electron. Calculation is made in first approximation with respect to the deformation parameter. The authors developed new functions which are used to calculate the matrix elements of electron capture and beta decay. In the case of a nonspherical nucleus, electron- and nuclear variables cannot be separated. So-called "satellite" angular momenta occur, I (of the nucleus) and j (of the electron), which must satisfy the inequalities $|I-I_0| \leq 2$ and $|j-j_0| \leq 2$, as follows from the properties of the Clebsch-Gordan- and Racah coefficients. I_0 and/or j_0 denote the total angular

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82418

The Effect of Nuclear Deformation on the Electron Wave Function. Application to the Beta Decay

S/056/60/038/03/19/033
B006/B014

momenta in the absence of quadrupole interaction. An explicit expression is obtained for the wave functions - equation (21) - whose behavior in the region $r < R$ (R - nuclear radius) is investigated. "Satellite" states lead to the appearance of new matrix elements which are able in certain cases to modify the probabilities of the respective transitions considerably. In the case of beta decay at energies up to 1 Mev, $Z \sim 70$, $Q_0 \sim 5 \cdot 10^{-24} \text{ cm}^2$, and $\Delta I \geq 3$ (ΔI is the difference between the nuclear spin of initial and final state), the new matrix elements can be superior by two one or two orders of magnitudes to those which are computed without taking account of nuclear deformation (viz. without "satellite" states). The authors finally thank V. Rittenberg for his assistance, as well as Academician Sh. Tsitseyka and A. Gel'berg for their discussions. There are 17 references, 9 of which are Soviet.

ASSOCIATION: Fizicheskiy institut Akademii Rumynskoy narodnoy respubliki, g. Bukharest (Physics Institute of the Academy of the Roumanian People's Republic, City of Bucharest). Universitet im. Parkhona, g. Bukharest (Parkhon University, City of Bucharest)

Card 2/3

The Effect of Nuclear Deformation on the
Electron Wave Function. Application to the
Beta Decay

32420
S/056/60/038/03/19/033
B006/B014

SUBMITTED: August 5, 1959

X

Card 3/3

VAYNER, Rozaliya

Flow of Bronchial Pneumonia, treatments with Suphides, of Children
of Early Age

Dissertation for Candidate of a Medical Science degree. Chair of Pediatrics
(head, Prof. P.A. Byreyev) Saratov Medical Institute, 1946

VAYNER, R.; YUSIM, Kh.

Effect of deformation of the nucleus on the electron wave
functions. Application to decay. Zhur. eksp. i teor. fiz.
38 no.3:870-876 Mr '60. (MIRA 13:7)

1. Fizicheskiy institut Akademii Rumynskoy narodnoy respublik,
Bukharest i Universitet im. Parkhona, Bukharest.
(Electrons) (Beta rays--Decay) (Nuclei, Atomic)

AUTHOR: Vayner, R.

SOV/56-35-1-43/53

TITLE: The Nuclear Isomerism and the Atom Spectra (Yadernaya izomeriya i atomnyye spektry)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol. 35, Nr 1, pp. 284 - 286 (USSR)

ABSTRACT: A shift of the spectrum of $\text{In}^{115}\text{III}$, which is caused by the nuclear isomerism, was predicted in 2 previous papers (Ref 1). This result may be generalized for any odd nucleus if the following conditions are satisfied: 1) According to the shell model, the nuclear transitions are one-particle transitions. 2) For nuclei with optical protons, the shift is caused by a Coulomb (Kulon) interaction. However, in the nucleons with optical neutrons, the shift is caused by electron-neutron interaction. 3) In first approximation, the effect is described by the perturbation theory in the form given by J.Rosental(Rozental') and G.Breit (Breyt); the "non-perturbed" wave functions of the electron are calculated for the equilibrium distribution of the charge with respect to the volume of the nucleus. The absolute

Card 1/3

The Nuclear Isomerism and the Atom Spectra

SGV/56-35-1-43/59

values of the shift are defined only by the difference of the distributions of the nucleons in the nucleus. Finally, the effect may be expressed by the difference of the square radii of the optical nuclei. The sign of the shift depends on the whole nuclear configuration and also on the quantum numbers of the 2 corresponding nuclear states. The theoretical value of the shift ΔE was computed for the 2 transitions $1g_{9/2} - 2p_{1/2}$, $2d_{3/2} - 1h_{11/2}$ (these transitions are characteristic of a great number of isomers with an optical proton). The result of these computations depends only little on the form of the potential well. For these transitions in nuclei with odd Z and even N, a shift $\Delta E > 10^{-2}$ cm was found for the s-electrons. This can be shown experimentally. In the nuclei with even Z and odd N the isomeric excitation causes a change of neutron distribution and this leads to a change of electron -neutron interaction. The experimental detection of the isomeric shift may give a new method for the investigation of the structure of a nucleus, and it permits verification of the conditions 1) and 2). F.Bitter (according to a private information) is

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The Nuclear Isomerism and the Atom Spectra

SOV/56-35-1-43/59

endeavoring to detect the isomeric shift of Hg¹⁹⁷
by the method of double magnetic and optical resonance.
The author thanks Sh.Tsitseyka, Member, Academy of Sciences,
Roumania, Kh.Yussim, and D.Bogdan for some useful comments
and also E.Bedereu, Member, Academy of Sciences, Roumania,
and Ya.A.Smorodinskiy, Professor, for their interest in
this paper. There are 7 references.

ASSOCIATION: Fizicheskiy institut Akademii nauk Rumynskoy narodnoy
respubliki (Physical Institute of the AS of the Roumanian
People's Republic)

SUBMITTED: March 13, 1958

Card 3/3

VAYNER, Sh.A., inzh.; ZANDBERG, S.A., inzh.; VAYNER, S.A., inzh.; SHKURKO,
M.P., inzh.; FOKIN, V.M., inzh.; POBEREZKIN, L.A., inzh.;
USOL'TSOV, V.A., inzh.; USHKOV, S.G., inzh.

The FOS-1sh automatic gas cutting machine. Svar. proizv.
no.4:19-40 Ap '65. (MIRA 18:6)

VAYNER, Sh.A., inzh.; ~~VAYNER, S.A., inzh.~~

Kinematic errors and dynamic properties of photocopying
systems. Trudy VNIIAVTOGENMASH no.12:36-45 '65.
(MIRA 18:11)

VAYNER, Sh.A., inzh.; VAYNER, S.A., inzh.; USOL'TSEV, V.A., inzh.;
FOKIN, V.M., inzh.; SOTSKOV, N.I., inzh.; ZANDBERG, S.A., inzh.;
SIGAREV, V.S., inzh.; BRONSHTEYN, L.M., inzh.; YUNGER, S.V., kand.
tekhn. nauk; BATYREV, A.V., inzh.; BODVAKIN, Yu.F., inzh.;
RYZHKOV, N.I., inzh.; YAKHNIN, A.L., inzh.; FRIDKIS, Z.I., inzh.

Furnishing the SGU gas-cutting machine with a FOS-4 scale
photocopying control system. Svar. proizv. no.9:34 S '65.

(MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnologii
mashinostroyeniya (for Sh.Vayner, S.Vayner, Usol'tsev, Fokin,
Sotskov). 2. Volgogradskiy zavod im. Petrova (for Zandberg,
Sigarev, Bronshteyn). 3. VPTI khimnefteapparatury (for Yunger,
Batyrev, Bodyakin). 4. Ural'skiy zavod tyazhelogo mashinostroyeniya
imeni Sergo Ordzhonikidze (for Ryzhkov, Yakhnin, Fridkis).

VAYNER, Sh.A., inzh.; ZANBERG, S.A., inzh.

Double-coordinate photo-tracking system for automatic welding
machines. Svar. proizv. no.3:26-27 Mr '61. (MIRA 14:3)

1. Stalingradskiy nauchno-issledovatel'skiy institut tekhnologii
machinostroyeniya (for Vayner) 2. Stalingradskiy zavod im. Petrova
(for Zandberg).
(Electric welding—Equipment and supplies)

1.5400

S/135/61/000/003/008/014
A006/A001

28.1060 1068, 1089, 1132

AUTHORS: Vayner, Sh. A., Zandberg, S. A., Engineers

TITLE: A Two-Coordinate Photo-Tracking System of an Automatic Welding Machine

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 3, pp. 26-27

TEXT: In the electric arc welding of circumferential seams on large-size apparatus, due to the oval shape of the containers and the inaccurate leveling of the support, the necessity arises of developing the automatic control of the welding head position in respect to the work piece. The Stalingradskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (Stalingrad Scientific Research Institute of the Machinebuilding Technology) together with the Stalingrad Plant imeni Petrov developed for this purpose a two-coordinate photo-tracking system using a bright line for guidance. The line is applied with chalk or an aluminum pencil on the work piece using a special pattern. The system is used on the ABC (ABS) type automatic welding machine (Fig. 1). Its schematic diagram is given in Figure 2. The device consists of two closed automatic circuits, controlling the vertical and horizontal motion of the welding machine. A special photo-head serves as a deflection pickup issuing two independent error signals which

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S/135/61/000/003/002/014
A006/A001

X

A Two-Coordinate Photo-Tracking System of an Automatic Welding Machine

correspond to the vertical and horizontal deflection of the nozzle in respect to the seam. The signal of horizontal deflection is transmitted to amplifier Y_x . The increased voltage of the signal is transmitted to phase inverter FB, converting the amplitude changes of the signal into corresponding phase shifts. The voltage converted is used to control reversible ion drive D_x of the horizontal travel. Non-balance voltage corresponding to the vertical deflections of the nozzle, are transmitted through amplifier Y_x to relay unit IB_r controlling servo-drive D_g , which shifts burner SG vertically to the required magnitude. Each tracking system is equipped with indicator devices IN_x and IN_z . The operational system of the photo-electric head is shown in Figure 3. (Author's certificate No. 665358/24 with priority from November 19, 1960). The photo-electric head is arranged along the bright line in such a manner that the underlight is in plane Y, perpendicular to the drum axis. This arrangement assures the separate reception of the error signal components along axes X and Z. A 65° angle between the photo-electric head and the underlight reproduces the bright line more distinctly. In case of deflection from axis X the bright line switches from the central position over to one of the photo-electric resistances (A or B) changing their illuminance.

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S/135/61/000/003/008/014
A006/A001

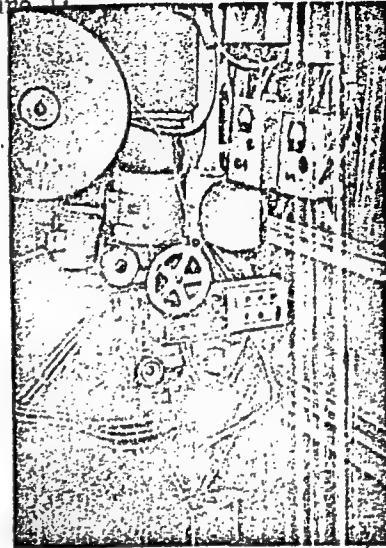
A Two-Coordinate Photo-Tracking System of an Automatic Welding Machine

In case of deflection from axis Z, the illuminated section of the line is displaced in respect to the photo-electric head axis, changing the illuminance of photo-electric resistances C or D. Both the resistances are sensitive elements of two a-c bridges, whose non-balance voltages depend on the shift and whose phases depend on the shift sign. The bridges are power supplied from a step-up transformer with a permalloy core. Tests made with the tracking system proved its reliability. The use of the aluminum pencil and the special pattern for the lay-out simplifies the application of the bright line. The use of such systems reduces rejects due to shifting of the seam, facilitates operations and raises labor efficiency.

Figure 1:

General view of A6C (ABS) automatic machine with photo-tracking system

Figure 1:



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A006/AC01

A Two-Coordinate Photo-Tracking System of an Automatic Welding Machine

Figure 2:

Schematic diagram of the tracking system

Figure 3:

Operational principle of the photo-electric head

There are 3 figures.

ASSOCIATIONS: SNIITMASH (Vayner); Stalingradskiy zavod imeni Petrova (Stalingrad Plant imeni Petrov) (Zandberg).

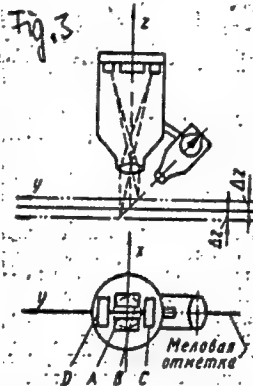
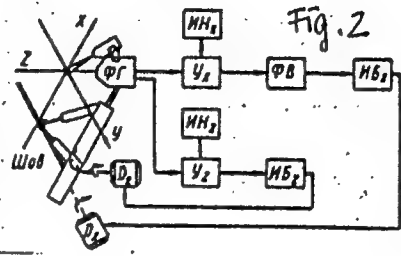


Figure 2:



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VAYNER, Sh.A., inzh.; VAYNER, S.A., inzh.

Kinematic errors and dynamic properties of photocopying
systems. Trudy VNIIVTOGEIMASH no.12:36-45 '65.
(MIRA 18:11)

MANSUROV, N.N.; ~~VAYNER, Sh.G.~~, otvetstvennyy za vypusk.

[Program of a course in "Theoretical principles of electric engineering" in the subjects: "Electric machinery manufacture," "Manufacture of cables and wires," "Manufacture of electric equipment" and "Manufacture of electric appliances (a course of 279 hours)] Programma kursa "Teoreticheskie osnovy elektrotehniki" dlia spetsial'nostei "Elektromashinostroenie," "Proizvodstvo kabelei i provodov," "Elektroapparatostroenie" i "Elektropriborostroenie" (Ob'em kursa 279 chasov). Moskva, 1957. 17 p. (MIRA 1148)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrotekhnicheskoy promyshlennosti. Upravleniye uchebnymi zavedeniyami. Metodicheskoye byuro.

(Electric engineering--Study and teaching)

VAYNER, Sh.A., inzh.; VAYNER, S.A., inzh.; USOL'TSEV, V.A., inzh.;
FOKIN, V.M., inzh.; SOTSKOV, N.I., inzh.; ZANDBERG, S.A., inzh.;
SIGAREV, V.S., inzh.; BRONSHTEYN, L.M., inzh.; YUNGER, S.V., kand.
tekhn. nauk; BATYREV, A.V., inzh.; BODVAKIN, Yu.F., inzh.;
RYZHKOV, N.I., inzh.; YAKHNIN, A.L., inzh.; FRIDKIS, Z.I., inzh.

Furnishing the SGU gas-cutting machine with a FOS-4 scale:
photocopying control system. Svar. proizv. no.9:34 S '65.

(MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (for Sh.Vayner, S.Vayner, Usol'tsev, Fokin, Sotskov).
2. Volgogradskiy zavod im. Petrova (for Zandberg, Sigarev, Bronshteyn).
3. VPTI khimnefteapparatury (for Yunger, Batyrev, Bodyakin).
4. Ural'skiy zavod tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze (for Ryzhkov, Yakhnin, Fridkis).

KLEBANOV, G. Ya.; ABEL'SKIY, A. M.; BEYDER, A. V.; VAYNER, S. V.;
VLASIK, V. S.; GOL'DFEDER, Ya. M.; DUDKINA, D. F.; ZHURAVLEVA,
L. D.; KANE, D. B.; KUBALNOV, M. L.; KOLODEZNAYA, T. B.;
KUTASHNIKOV, V. Ya.; SOLODOVNIKOV, B. M.; STROYMAN, L. A.;
SHUMKOVA, N. S.

Results of dispensary treatment of occupational dermatoses in
the clinics of Leningrad. Vest. dermat. i ven. 36 no.6:58-62
Je '62. (MIRA 15:6)

1. Iz kozhno-venerologicheskikh dispanserov No. 1, 2, 3, 5, 9,
10, 11, 12, 13, 14, 15, 17, 18, 19, 22 (nauchnyy rukovoditel' -
chlen-korrespondent AMN SSSR prof. P. V. Kozhevnikov)

(LENINGRAD--OCCUPATIONAL DISEASES)
(SKIN--DISEASES)

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<p><i>Electrodeposition of Tin. V. L. Kheifets and Ya. V. Valner (Sobolevskaya Leningradskogo Instituta Metallov (Rep. Central Inst. Metals, Leningrad), 1934, (18), 165-180; C. Abs., 1935, 22, 3607).—[In Russian, with German summary.]</i> <i>A study was made of 3 types of electrolytic tin baths: cyanide, oxalate, and a sulfate bath containing sulfonic acids. It was found that in the cyanide and oxalate baths a passivity of the anode occurs, resulting in a change in the tin concentration of the bath during electrolysis. The sulfate bath does not undergo any changes and also has a better throwing power. It was definitely established that the addition of cresolsulfonic acid and glue to an electrolytic tin bath prevents change in the composition of the bath, gives good throwing power, and permits the use of a high current density.—S. G.</i></p>																																																			
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VAYNER, YA. V.

VAYNER, Ya. V., laureat Stalinskoy premii kandidat tekhnicheskikh nauk;
DASOTAN, M.A., kandidat tekhnicheskikh nauk; DRINBERG, A.Ya.,
laureat Stalinskoy premii doktor tekhnicheskikh nauk, professor;
TARASENKO, A.A., laureat Stalinskoy premii, inzhener; KHAIN, I.I.,
inzhener; BOGORAD, I.Ya., laureat Stalinskoy premii kandidat
tekhnicheskikh nauk, retsenzent; SNEDZE, A.A., kandidat tekhnicheskikh nauk, retsenzent; YAMPOL'SKIY, A.M., inzhener, retsenzent;
TIKHOMIROV, A.A., inzhener, retsenzent; FEDOT'YEV, N.P., laureat
Stalinskoy premii doktor tekhnicheskikh nauk, professor, redaktor;
GUREVICH, Ye.S., kandidat tekhnicheskikh nauk, redaktor; DLUGOKAN-
SKAYA, Ye.A., tekhnicheskii redaktor

[Handbook on protective and decorative coatings]. Spravochnik po
zashchitno-dekorativnym pokrytiyam. Pod red. N.P.Fedot'eva.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1951. 480 p.
[Microfilm] (MLRA 10:7)

(Protective coatings)

VAYNER, Ya.V.; DASOYAN, M.A.; DLUGOKANSKAYA, Ye.A., tekhnicheskiy redaktor.

Oborudovanie gal'vanicheskikh tsakhov. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroitel'noi lit-ry, 1954. 294 p. (MIRA 7:12)
(Electroplating)

ASE I BOO: EXPLOITATION

SOV/3969

Vayner, Yakov Vul'fovich

Oborudovaniye gal'vanicheskikh tsekhov (Equipment for Electrodepositing Shops)
Moscow, Mashgiz, 1958. 77 p. (Series: Bibliotekha gal'vanotekhnika, vyp. 11)

Ed.: P.M. Vyacheslavov, Candidate of Chemistry, Docent; Reviewer: B.P. Kushnarev, Engineer; Editorial Board: P.M. Vyacheslavov (Chairman), S.Ya. Grilikhes, Candidate of Technical Sciences, and A.M. Yampol'skiy, Engineer; Ed. of this book: A.M. Yampol'skiy; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F.I. Fetisov, Engineer; Ed. of Publishing House: N.Z. Simonovskiy; Tech. Ed.: L.V. Sokolova.

PURPOSE: This book is intended for skilled workers, laboratory technicians, and foremen of electroplating and electroforming shops.

COVERAGE: The book is the eleventh volume of the "Little Library of Electrodeposition" series. It describes electrodepositing shop equipment, and gives instructions for making it ready, and for its operation and maintenance. Principal methods of lining electrodepositing baths with acid-resistant materials

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Equipment for Electrodepositing Shops

SOV/3969

are also discussed. No personalities are mentioned. There are 14 references, all Soviet.

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Equipment for Electrodeposition Shops

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Equipment for Electrodepositing Shops	SOV/3969	64
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AVAILABLE: Library of Congress (TS670.B6)		

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JA/cdu/gup
8-23-60

ANTONOV, Nikolay Mikhaylovich, inzh.; VAYNER, Ya.V., kand. tekhn.
nauk, red.; FOMICHEV, A.G., red. izd-va; GVIRTIS, V.L.,
tekhn. red.

[New suspended devices for electrochemical treatment of
cylindrical parts]Novye podvesnye prispособlenia dlia
elektrokhimicheskoi obrabotki tsilindricheskikh detaiei.
Leningrad, 1962. 17 p. (Leningradskii dom nauchno-
tekhnicheskoi propagandy. Obmen peredovym opytom. Seria:
Zashchitnye pokrytiia metallov, no.5) (MIRA 15:11)
(Electroplating--Equipment and supplies)
(Electrolytic polishing--Equipment and supplies)

VAYNER, Yakov Vul'fovich; KUSHNAREV, B.P., inzh., retsenzent; VYACHESLAVOV, P.M., kand.khim.nauk, dotsent, red.; YAMPOL'SKIY, A.M., inzh., red.vypuska; GRILIKHES, S.Ya., kand.tekhn.nauk, red.; FOMICHEV, A.G., red.izd-va; BARDINA, A.A., tekhn.red.

[Equipment of electroplating plants] Oboorudovanie gal'vanicheskikh tsakhov. Izd.2., dop. i perer. Pod red. P.M.Vlacheslavova. Moskva, Mashgiz, 1961. 93 p. (Bibliotekhka gal'vanotekhnika, no.11) (MIRA 14:12)

(Electroplating--Equipment and supplies)

BRUK, E.S.; VAYNER, Ya.V.

Modern equipment for the application of protective coatings.
Mashinostroitel' no.5:21-27 My '61. (MIRA 14:5)
(Protective coatings---Equipment and supplies)

VAYNER, Ya.V.; DASOYAN, M.A.; YAMPOL'SKIY, A.M., kand. tekhn.nauk,
retsenzent; KAN, V.I., inzh., retsenzent; IYZLOV, Yu.V., kand.
khim. nauk, red.; VARKOVETSKAYA, A.I., red.izd-va; PETERSON,
M.M., tekhn. red.

[Technology of electrochemical coatings] Tekhnologiya elektro-
khimicheskikh pokrytii. Moskva, Mashgiz, 1962. 468 p.
(MIRA 15:12)

(Electroplating)

137-58-4-7149

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 120 (USSR)

AUTHORS: Zvorono, B. P., Petrova, Ye. N., Polilov, N. A., Vayner, Ye. L., Samsonenko, G. T.

TITLE: Designs of Medical Instruments Suitable for Production by Cold Extrusion (Konstruirovaniye meditsinskikh instrumentov dopuskayushchikh kholodnoye pressovaniye)

PERIODICAL: Materialy po obmenu opytom i nauchn. dostizh. v med. prom-sti, 1957, Nr 4 (23), pp 90-106

ABSTRACT: The manufacture of medical instruments from blanks in the form of bodies of revolution produced by cold reducing, cross-rolling, or machined by template on a lathe is performed on ordinary presses using open plates, with reduction by 50-60 percent in a single operation in the cold condition under unit pressures of 12-15 t/cm², offering the following advantages: replacement of the laborious operations of hand roughing and filing by machine operation, production of a high degree of surface finish without burrs or having no more than a thin flash, saving of metal, employment of universal equipment, use of simple and cheap dies, repair of which may be done on a flat grinder. When high degrees

Card 1/2

137-58-4-7149

Designs of Medical Instruments Suitable for Production by Cold Extrusion

of reduction are required, the pressing is done in a number of passes, with high-temperature annealing performed between passes. Methods of calculating the initial blank and of designing the non-operating elements of the instrument, also examples of typical products manufactured in this manner, are presented.

Ye. L.

1. Medical instruments--Production
2. Metals--Extrusion--Applications

Card 2/2

VAYNER, Ye.L.; POLILOV, N.A.; KOSHELEV, V.I.

New technique in the production of anatomical pincers. Med. prom.
13 no.8:23-31 Ag '59. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya i Gor'kovskiy mediko-instrumental'nyy
zavod imeni V.I.Lenina.
(MEDICAL INSTRUMENTS AND APPARATUS)

VAYNER, Ye.L. VOLODIN, Ye.A.

Membrane sphygmomanometer. Nov. med. tekhn. no.2:31-37 '62.
(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

GOL'BERG, S.Z.; VAYNER, Ye.L.

Production of sterilization equipment from Khl8G14AN4-brand steel.
Nov. med. tekhn. no.2:102-107 '62.

(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

S/182/62/CCC/010/CC3/CG4
DC4C/D113

AUTHORS: Gol'berg, S.Z., and Vayner, Ye.L.

TITLE: Extruding medical equipment parts from stainless Kh18G14AN4 sheet steel

PERIODICAL: Kuznechno-shtampovochnoye.proizvodstvo, no. 10, 1962, 27-30

TEXT: The Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya (VNIIMiO) (All-Union Scientific Research Institute of Medical Instruments and Equipment) tested 7 stainless steel grades in search for a low-nickel substitute for X18H9T (Kh18N9T) steel used for equipment produced by cold extrusion. X18Г14АН4 (Kh18G14AN4) was selected as the best substitute, and X14Г14Н3Т (Kh14G14N3T) as the next best. The chemical composition of Kh18N9T and these substitutes is:

Card 1/2

S/1E2/62/CCC/CLC/CC3/CC4
DC4C/D113

Extruding medical equipment

	C	Si	Mn	Cr	Ni	Ti	N
Kh18N9T	0.01	0.5	1.0	17.3	9	0.6	-
Kh18G14AN4 (also called 3N197/EP197)	0.08	0.8	13.1	18.3	3.5	-	0.25
Kh14G14N3T (also called 3N711/EI711)	0.03	0.6	13.6	14.06	2.86	0.97	-

Further tests at two medical equipment plants proved that Kh18G14AN4, in its technological and anti-corrosion properties, is equal to Kh18N9T; it is weldable and requires no new extrusion techniques or equipment. The plasticity and corrosion resistance of Kh14G14N3T is somewhat lower than that of Kh18N9T. There are 4 figures and 3 tables.

Card 2/2

VAYNER, Ye.L.

Selection of a fundamental parameter for standardizing the
framework of medical electronic appliances and apparatus.
Trudy VNIIMIO no.3:192-194 '63 (MIRA 18:2)

VAYNER, Ye.L.

Functional-block method of construction and unification of
the frames of electronic medical equipment and apparatus.
Nov. med. tekhn. no.2:155-162 '64.

Analysis of the work of the coil in the recording galvanometer
ChPG-2. Ibid.:163-167 (MIRA 18:11)

VAYNER, Ye.M.; DYATLOVA, V.P.; POMANSKAYA, M.P.; GRABYL'NIKOVA, K.A.

Production of rubber linoleum and a mastic for gluing it down.
Stroi.mat. 8 no.7:26-27 JI '62. (MIRA 15:8)
(Linoleum) (Glue)

KRISHTAL, M.A.; FIRSANOV, I.A.; VAYNER, Yu.I.; GOLOVIN, S.A.;
MAKSIMOV, S.K.

Mechanical properties of statically and dynamically deformed
alloys. Fiz. met. i metalloved. 15 No.2:305-309 F '63.
(MIRA 16:4)

1. Tul'skiy mekhanicheskiy institut.
(Alloys--Testing)

AUTHOR: Krishtal, M. A., Golovin, G. M.
P. 100

... of low carbon steel

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formation of microcracks. Two competitive mechanisms (strengthening and weakening)

(This Institute of Mechanics)

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By: 1) an increase in the yield point, which for steel in the initial state does not exceed 0.15% and attains 0.05% in the case of a 10% deformation; 2) a sharp

increase in the strength of the steel. For steel in the quenched state

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ACCESSION NR: .AP3010674

S/0241/63/008/010/0050/0052

AUTHOR: Rusakov, A. B.; Vayner, Z. Ya.

TITLE: Effects of prolonged repeated X-irradiation on the blood

SOURCE: Meditsinskaya radiologiya, v. 8, no. 10, 1963, 50-52

TOPIC TAGS: blood change, fractional dose X-irradiation, prolonged repeated irradiation, weight loss, leucocyte count, erythrocyte count, lymphocyte count, thrombocyte count, blood level restoration

ABSTRACT: Blood changes were studied in two groups of rabbits after prolonged repeated X-irradiation. The first group (30 rabbits) was X-irradiated (RUM-11, 19.4 r/sec) with a 20 r dose daily for 63-64 days up to a total dose of 1200 r. The second group (30 rabbits) was X-irradiated under the same conditions up to a total dose of 2000 r. Erythrocyte, leucocyte, thrombocyte, and lymphocyte counts were made. Observation periods lasted 2-3 mos. Findings for the first group show a 10-20% weight loss and leucopenia. Leucocytes decrease by 60-75%, lymphocytes decrease by 30-40%, thrombocytes decrease by 10% at most, and erythrocytes do not change. In the second group all

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ACCESSION NR: AP3010674

animals lose weight (up to 20%) and blood changes are more distinct and intense. Erythrocytes decrease and undergo degenerative changes, but hemoglobin decrease is insignificant. Leucocytes decrease by 33-50%, lymphocytes decrease by 30-40%, and thrombocytes decrease by 20%. For animals exposed to 1200 r blood is restored to its normal level 25-30 days after irradiation. For animals exposed to 2000 r blood is restored to its normal level at the end of the second month. Prolonged X-irradiation produces symptoms similar to chronic radiation sickness with blood changes directly dependent on total radiation dose. Orig. art. has: none.

ASSOCIATION: None.

SUBMITTED: 24Apr63

DATE ACQ: 08Nov63

ENCL: 00

SUB CODE: AM

NO REF SOV: 000

OTHER: 000

Card 2/2

Vayner, Z. Ye.

Mbr. , Sterlitamak, Bashkir ASSR (-1945-)

"An Automatic Reversing Mechanism," Stanki I Instrument,
16, Nos. 4-5, 1945

BR-52059019